

SN:09/759,704

Q4  
7. (Amended) A method for producing a first generation (F<sub>1</sub>) hybrid maize seed comprising crossing the plant of claim 2 with a different parent maize plant and harvesting the resultant first generation (F<sub>1</sub>) hybrid maize seed.

Q5  
SUB B2  
9. (Amended) An F<sub>1</sub> hybrid seed produced by crossing the maize plant according to claim 2 with another, different maize plant.

Q6  
11. (Amended) The maize plant, or parts thereof, of claim 2, wherein the plant or parts thereof contains one or more transgenes.

12. (Amended) A method for producing a maize plant comprising crossing the maize plant of claim 11 with a second plant.

13. (Amended) The maize plant, or parts thereof, produced by the method of claim 12.

14. (Amended) A maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 2, said maize plant expressing a combination of at least two PH6WG traits which are not significantly different from PH6WG traits when determined at the 5% significance level and when grown in the same environmental conditions, said PH6WG traits selected from the group consisting of: a relative maturity of 109 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, yield, cold test scores, late season stalk strength, resistance to brittle stalk, resistance to Gray Leaf Spot, resistance to Anthracnose Stalk Rot, and drought tolerance; and wherein said at least two PH6WG traits were not exhibited by other plants utilized in the development of said maize plant.

15. (Amended) A method for developing a PH6WG-derived maize plant, or parts thereof, in a maize plant breeding program using plant breeding techniques comprising:

- a) obtaining the maize plant, or its parts, of claim 2 ;
- b) crossing said maize plant to a different plant; and
- c) growing the seed produced to obtain a PH6WG-derived maize plant, or parts thereof.

SN:09/759,704

a6 16. (Amended) The method of claim 15 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, and genetic marker enhanced selection.

17. (Amended) The PH6WG-derived maize plant, or parts thereof, produced by the method of claim 15 wherein the method comprises 2 or less crosses to a plant other than PH6WG or a plant that has PH6WG as a progenitor.

---

a7 19. (Amended) The maize plant of claim 18, wherein the single gene conversion is a dominant allele.

20. (Amended) The maize plant of claim 18, wherein the single gene conversion is a recessive allele.

21. (Amended) A maize plant, or parts thereof, having all the physiological and morphological characteristics of inbred line PH6WG, representative seed of said line having been deposited under ATCC accession No. PTA-4530.

22. (Amended) The maize plant of claim 21, wherein said plant further comprises a genetic factor conferring male sterility.

---

a8 24. (Amended) The tissue culture according to claim 23, cells or protoplasts of the tissue culture having been isolated from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

25. (Amended) A maize plant regenerated from the tissue culture of claim 23, capable of expressing all the morphological and physiological characteristics of inbred line PH6WG, representative seed of which have been deposited under ATCC Accession No. PTA-4530.

SN:09/759,704

Q8 26. (Amended) A method for producing a first generation (F<sub>1</sub>) hybrid maize seed comprising crossing the plant of claim 21 with a different parent maize plant and harvesting the resultant first generation (F<sub>1</sub>) hybrid maize seed.

27. (Amended) The method of claim 26 wherein the maize plant of claim 21 is the female or male parent.

28. (Amended) An F<sub>1</sub> hybrid seed produced by crossing the maize plant according to claim 21 with another different maize plant.

---

Q9 30. (Amended) The maize plant, or parts thereof, of claim 21, wherein the plant or parts thereof, further comprises one or more transgenes, and wherein the maize plant, or parts thereof, are essentially unchanged from the corresponding plant, or plant parts thereof, of inbred maize line PH6WG.

31. (Amended) A method for producing a maize plant comprising crossing the maize plant of claim 30 with a second plant.

32. (Amended) The maize plant, or parts thereof, produced by the method of claim 31.

33. (Amended) A PH6WG-derived maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 2, and wherein the pedigree of said PH6WG-derived maize plant is within 2 or less crosses to a plant other than PH6WG or a plant that has PH6WG as a progenitor.

34. (Amended) A method for developing a PH6WG-derived maize plant, or parts thereof, in a maize plant breeding program using plant breeding techniques comprising:

- a) obtaining the maize plant, or its parts, of claim 21;
- b) crossing said maize plant to a different plant; and
- c) growing the seed produced to obtain a PH6WG-derived maize plant, or parts thereof.

SN:09/759,704

a<sup>9</sup>

35. (Amended) The method of claim 34 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, and genetic marker enhanced selection.

36. (Amended) The PH6WG-derived maize plant, or parts thereof, produced by the method of claim 34, wherein the method comprises 2 or less crosses to a plant other than PH6WG or a plant that has PH6WG as a progenitor.

37. (Amended) A process for producing inbred PH6WG, representative seed of which have been deposited under ATCC Accession No. PTA-4530, comprising:

- (a) planting a collection of seed comprising seed of a hybrid, one of whose parents is inbred PH6WG said collection also comprising seed of said inbred;
- (b) growing plants from said collection of seed;
- (c) identifying said inbred PH6WG plants;
- (d) selecting said inbred PH6WG plant; and
- (e) controlling pollination in a manner which preserves the homozygosity of said inbred PH6WG plant.

---

40. (Amended) A method for producing a PH6WG-derived maize plant, comprising:

- (a) crossing inbred maize line PH6WG, representative seed of said line having been deposited under ATCC Accession No. PTA-4530, with a second maize plant to yield progeny maize seed;
- (b) growing said progeny maize seed, under plant growth conditions, to yield said PH6WG-derived maize plant.

a<sup>10</sup>  
SUB 32

41. (Amended) A PH6WG-derived maize plant, or parts thereof, produced by the method of claim 40.

42. (Amended) The method of claim 40, further comprising:

- (c) crossing said PH6WG-derived maize plant with itself to yield additional PH6WG-derived progeny maize seed;

SN:09/759,704

- Q10 SVB B2 cont
- (d) growing said progeny maize seed of step (c) under plant growth conditions, to yield additional PH6WG-derived maize plants;
- (e) repeating the crossing and growing steps of (c) and (d) to generate further PH6WG-derived maize plants.

43. (Amended) The further PH6WG-derived maize plants, or parts thereof, produced by the method of claim 42.

44. (Amended) The method of claim 40, still further comprising utilizing plant tissue culture at step (b) to regenerate said PH6WG-derived maize plant.

Q11

47. (Amended) The maize plants, or parts thereof, of claim 21, further comprising one or more single gene conversions, wherein the maize plant, or parts thereof, are essentially unchanged from the corresponding plant, or plant parts thereof, of inbred maize line PH6WG.

48. (Amended) The maize plant of claim 47, wherein the single gene conversion is a dominant allele.

49. (Amended) The maize plant of claim 47, wherein the single gene conversion is a recessive allele.